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TABULAR DATA ON SOVIET SERVO MOTORS AND SYNCHROS

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Table I - ServomotorsKey to Tabular Data for Servomotors

- 1 - Type of Servomotor
 2 - Classification
 3 - Rated Voltage (volts)
 4 - Frequency (cps)
 5 - Power Output (watts)
 6 - Motor Current (amperes)
 7 - Speed (rpm)
 8 - Rated Torque (gram-decimeters)
 9 - Weight (kilograms)
 10 - Permissible Speed Change in Reverse (rpm)

1	2	3	4	5	6	7	8	9	10
SL-221	DC Shunt	110	—	13	0.3	3600-4200	35	0.87	200
SL-221A	DC Shunt	110	—	13	0.3	3600-4200	35	0.87	200
SL-222	AC Series Reversible	110	50	10	0.35	4000-5200	24	0.87	300
SL-261	DC Shunt	110	—	24	0.5	3600-4600	65	1.22	200
SL-262	AC Series Reversible	110	50	14	0.45	4000-5200	35	1.22	300
SL-267	DC Shunt With Ballast Resistor	110	—	27	0.9	3800-4400	65	1.22	200
SL-267A	"	110	—	27	0.9	3800-4400	65	1.22	200
SL-267B	"	110	—	27	0.9	3800-4400	65	1.22	200
SL-281	DC Shunt	24	—	26	2.4	5200-6200	50	1.22	300
SL-320	DC Constant Speed	110	—	18.5	0.5	4500 ± 22	40	2.01	—
SL-321	DC Shunt	110	—	38	0.7	3000-3700	125	1.65	200
SL-322	AC Series Reversible	110	50	22	0.6	3600-4700	60	1.65	300
SL-340	DC Constant Speed	120	—	16.5	2.1	4000 ± 20	40	2.01	—
SL-350	"	220	—	18.5	0.3	4500 ± 22	40	2.01	—

1	2	3	4	5	6	7	8	9	10
SL-327	DC Shunt with Ballast Resistor	110	—	0.28	0.9	3000-3600	90	1.65	200
SL-360	DC Constant Speed	110	—	23	0.6	4500 ± 22	50	2.2	—
SL-361	DC Shunt	110	—	50	0.85	3000-3600	160	1.9	200
SL-365	DC Series ^{Non-} reversible	110	—	46	0.8	4500-5400	100	1.9	—
SL-367	DC Shunt with Ballast Resistor	110	—	32	1	2500-3000	125	1.9	200
SL-369	DC Shunt	110	—	55	0.9	3600-4200	150	1.9	200
SL-370	DC Constant Speed	24	—	28	3	4500 ± 22	60	2.2	—
SL-372	DC Series ^{Non-} reversible	55	50	25	1.7	2900-3800	81	1.9	—
SL-381	DC Shunt	110	—	77	1.2	3000-3600	250	—	200
SL-381A	"	110	—	20	0.5	1000-1200	200	—	80
SL-387	DC Series Reversible	110	—	74	1.15	3000-3800	240	—	300
SL-325	DC Series Non-reversing	110	—	78	1.2	3800-4400	200	—	—
SL-563	DC Series Reversing	110	—	110	1.5	3800-4400	280	4.40	300
SL-569	DC Shunt	110	—	175	2.2	3400-3800	475	4.40	200
SL-569K	"	110	—	36	0.8	850-1050	420	4.40	80
SL-570	DC Constant Speed	110	—	77	1.2	3000 ± 15	250	6.16	—
SL-571K	DC Shunt	24	—	95	7	>2200	420	4.40	200
SL-621	"	110	—	172	2.3	2400-2700	700	7.5	200
SL-661	"	110	—	230	2.9	2400-2700	925	9.6	200
SL-525A	DC Series Non-reversing	24	—	30	3	2800-3400	100	3.2	—

Table II - Selsyn Transmitters and Receivers

Key to Tabular Data for Selsyn Transmitters and Receivers

- 1 - Selsyn Transmitter Type Number 5 - Rated Voltage (volts)
 2 - Selsyn Receiver Type Number 6 - Rated Frequency (cps)
 3 - Number and Designation of Group 7 - Number of Figure Showing
 4 - Weight (kilograms) Type of Operation

1	2	3	4	5	6	7
11-151	SS-153	I - Small High-frequency	0.8	110	500	3
11-401	SS-401	II - Normal	1.2	50	50	1
11-402	SS-402					
11-403	SS-403					
11-404	SS-404	III - Normal High-freq.	0.8	52	500	2
11-405	SS-405	IV - Normal Low-voltage	1.2			
11-406	SS-406		2.8			
11-500	SS-500	V - Amplifying	2.8	110	50	1
11-501	SS-501		3.8			
11-502	SS-502		4.0			
11-503	SS-503		2.6			
11-504	SS-504		0.8			

Weight given is for SS-501; SS-501 weight is 2.8 kilograms

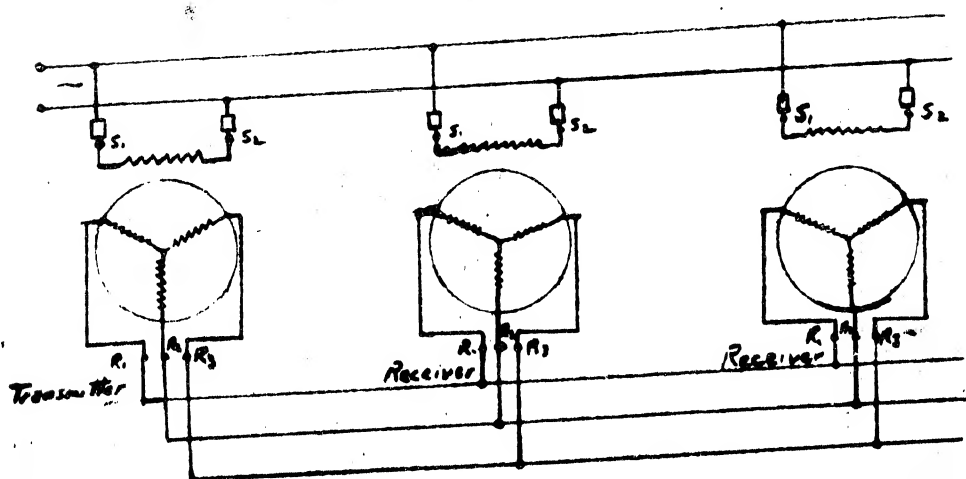


Figure 1. Synchronous Transmission System for Selsyn of Group II.

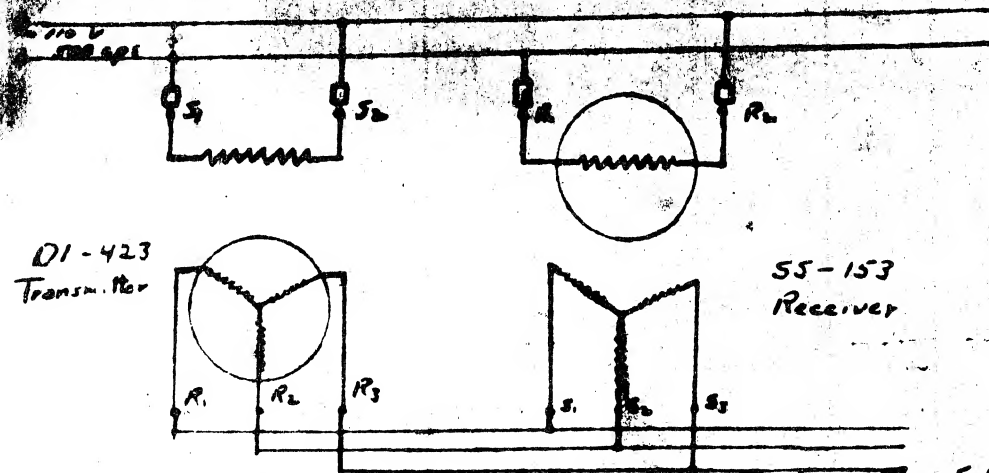


Figure 2. Synchronous Transmission System For Sel-syns of Group II.

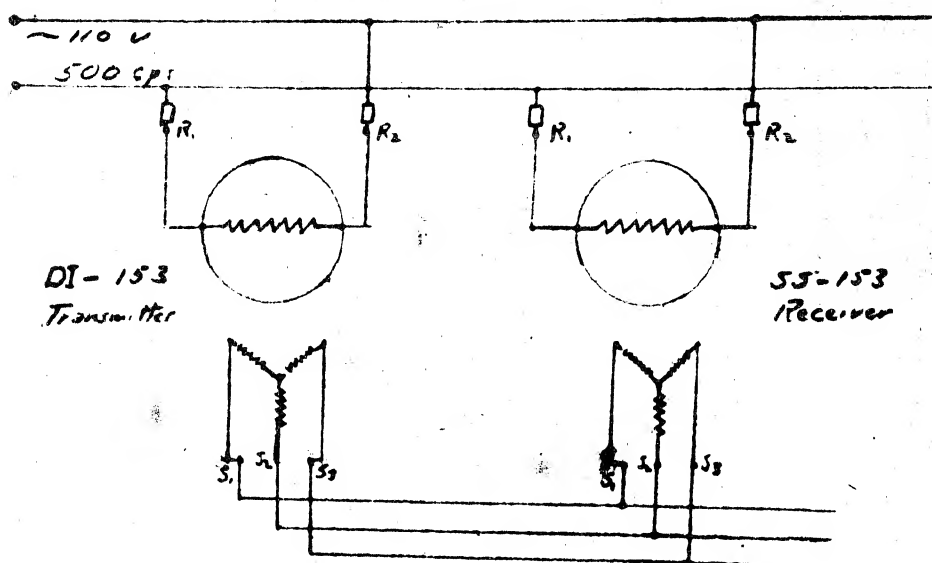


Figure 3. Synchronous Transmission System For Sel-syns of Group I.

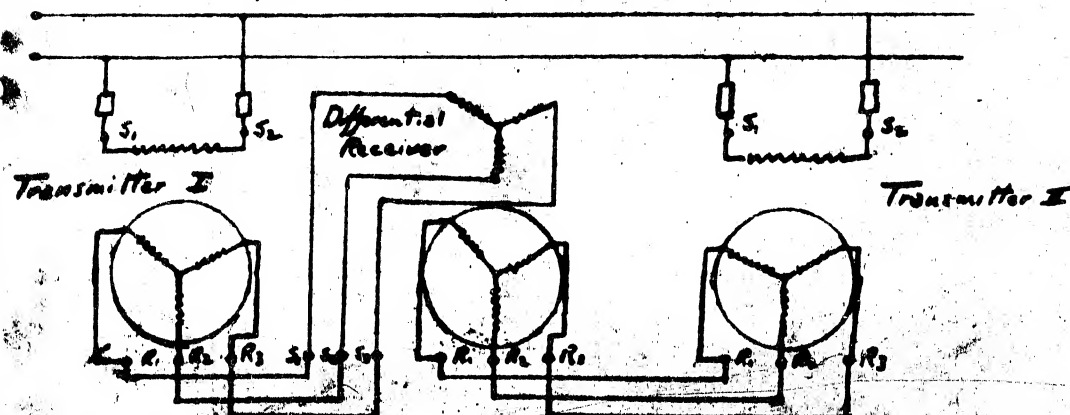


Figure 4. Synchronous Transmission System For Sel-syns of Group III.

Table III - Type ST Motors

Key to Tabular Data for ST Electric Motors, Used as Receivers in Three-Wire Synchronous Transmission Systems

- 1 - Motor Number
- 2 - Voltage at the Motor Terminals (volts)
- 3 - Maximum Current Per Phase (amperes)
- 4 - Phase Resistance at 20° C (ohms)
- 5 - Ballast Resistance Per Phase (ohms)
- 6 - Number of Positions for One Shaft Revolution
- 7 - Weight (kilograms)

1	2	3	4	5	6	7
ST-101	110	0.27	210	73 ± 10	24	1.5
ST-111	110	0.27	210	73 ± 10	24	1.5
ST-120	110	0.25	230	73 ± 10	24	1.5
ST-130	110	0.25	230	73 ± 10	24	1.5
ST-131	110	0.25	230	73 ± 10	24	1.5
ST-141	110	0.30	162	73 ± 10	24	1.5
ST-160	110	0.86	20.4	65 ± 1	24	2.8
ST-161	110	0.86	20.4	65 ± 1	24	2.8
ST-170	110	0.77	20.4	65 ± 1	24	2.8

Table IV - Type SCh Motors

Key to Tabular Data for SCh Motors, Reactive Synchronous Machines Used as Receivers in Four-Wire Synchronous Transmission Systems, Same as For Table III
(except that 4 is max. current in neutral conductor instead of phase resistance)

1	2	3	4	5	6	7
SCh-200	22	0.44	0.88	0	24	0.5
SCh-201	110	0.20	0.32	140	24	1.3
SCh-210	22	0.44	0.88	0	24	0.5
SCh-260	110	0.20	0.40	—	24	2.8

1	2	3	4	5	6	7
SCh-270	110	0.20	0.40	—	24	2.5
SCh-271	110	0.24	0.48	100	24	2.5
SCh-272	110	0.17	0.34	260	24	2.0
SCh-273	22	0.44	0.88	0	24	2.1
SCh-274	110	0.30	0.60	260	24	2.0
SCh-275	22	0.44	0.88	0	24	2.1
SCh-276	110	0.30	0.60	260	24	2.1
SCh-300	20	0.27	0.54	0	12	0.5
SCh-310	20	0.27	0.57	0	12	0.5
SCh-320	20	0.18	0.36	0	12	2.1
Repeater Motor	22	0.44	0.88	0	24	—

[Further information on the construction, tests, and accuracy of the motors mentioned in this report is available in the source indicated].

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